

**ABSTRACT OF THE DISCLOSURE****CHIP-SCALE WDM SYSTEM USING GRATING-OUTCOUPLED SURFACE-  
EMITTING LASERS**

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10 A surface emitting semiconductor laser system having an outcoupling aperture on a  
central waveguide. At either end of the central waveguide are means for reflecting a plurality of  
different wavelengths of light such that multiple wavelengths are outcoupled through a single  
outcoupling aperture. Means are provided by which the different wavelengths can be  
independently modulated.